

Strain, pressure and temperature measurements Gas turbine / Hydrolic turbine

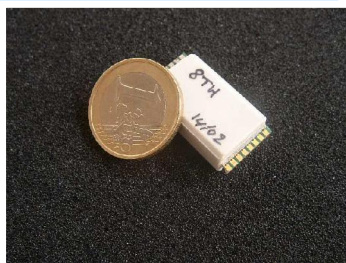


48 channels TELEMETRY

Telemetry Hydro turbine



**8 Channels
miniature module dismountable**



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miniature module**



ATEB telemetry support 80 synchronous temperature and strain gage inputs. Radio data stream transmission ease the integration of **ATEB** telemetry on turbine Low pressure stage and propellers, for example aerospace Low pressure turbine or wind turbine. Overall dimension, weight and architecture allow direct integration of **ATEB** telemetry on shaft.

Electric specifications:

- static and dynamic strain : 120 to 1200 Ohm gage
- Embedded open and short circuit gage test (true integrated sinus generator)
- Maximum phase shift between channels : less than 3°
- Temperature measurement : Thermocouple type K-N-J, 1200°C max
- Bande pass :
 - 15Hz - 40kHz per channel (dynamic gage)
 - 15Hz-4kHz per channel (static gage)

Options :

From 4 to 48 strain gages and 8 to 80 temperature channels.

Specific high band pass design on demand.

RF specification:

- PCM-PSK data transmission
- Max RF Power : 5mW
- Frequency range : 2.4GHz
- Rate : 40Mb/s
- Remote control : On/Off, gain, bande pass and gage current adjustment on the fly.

Technical specifications

- Supply : Rechargeable Battery or Induction
- Opérating temperature : -50°C/+85°C (125°C option)
- Acceleration : 30000 G

Receiver :

- Analog output emphasis (sinx/x)
- Analog output +/-5V or 0/10V
- PCM Digital output (20Mb/s NRZ)